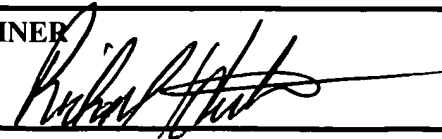


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U.S. PATENT DOCUMENTS

Examiner Initial	Copy Enclosed	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
RH	X	3,779,869	12/18/73	Zienty	195	68	
	X	4,075,321	02/21/78	Relyveld	424	92	
	X	4,138,290	02/06/79	McMullen et al.	195	31	
	X	4,695,455	09/22/87	Barnes et al.	424	93	
		4,745,064	05/17/88	Cook et al. (English Language equivalent to EPO 0 141 784)	435	257.1	
	X	4,757,008	07/12/88	Reverman	435	94	
	X	4,798,786	01/17/89	Tice et al.	435	177	
	X	4,849,217	07/18/89	Soares et al.	424	93	
	X	4,918,016	04/17/90	Leuba et al.	435	176	
	X	5,073,677	12/17/91	Helmer et al.	800	205	
	X	5,143,847	09/01/92	Kawase et al.	435	288	
	X	5,318,913	06/07/94	Relyveld	435	520	
		5,429,949	07/04/95	Radosevich et al.	435	257.1	
	X	5,437,993	08/01/95	Visuri	435	234	
	X	5,474,925	12/12/95	Maliyakal et al.	435	172.3	
	X	5,489,401	02/06/96	Freeman	264	4.3	
		5,508,193	4/16/96	Mandelbaum et al.	435	262.5	
	X	5,824,512	10/20/98	Pazirandeh et al.	435	69.7	
	X	5,849,296	12/15/98	Navia et al.	424	178.1	
	X	6,265,201 B1	07/24/01	Wackett et al.	435	257.3	
RH	X	6,284,522 B1	09/04/01	Wackett et al.	435	262.5	


FOREIGN PATENT DOCUMENTS

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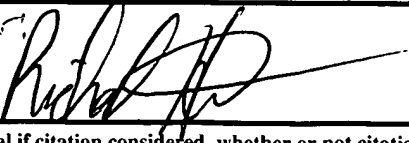
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RH	X	0 234 415 A2	09/02/87	EPO				
RH	X	0 302 284 B1	02/08/89	EPO				
RH	X	0 340 378 B1	11/08/89	EPO				
RH	X	0 859 051 A1	08/19/98	EPO				
RH	X	DE 35 08 906 A1 (with English language abstract)	09/18/86	Germany				
RH	X	JP 616 9772 (with English language abstract)	06/21/94	Japan				
RH	X	RU 20 90 246 C1 (with English language abstract)	09/20/97	Russia				
RH	X	GB 2 244 711 A	12/11/91	United Kingdom				
RH	X	WO 90/07576(with English language abstract)	07/12/90	WIPO				
RH	X	WO 91/01087	02/07/91	WIPO				
RH		WO 95/01437	01/12/95	WIPO	C12N	5/12		
RH	X	WO 95/22625	08/24/95	WIPO				
RH	X	WO 97/15675	05/01/97	WIPO				
RH	X	WO 98/18941 (with English language abstract)	05/07/98	WIPO				
RH	X	WO 98/31816	07/23/98	WIPO				
RH	X	WO 01/55409 A2	08/02/01	WIPO				

OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

EXAMINER 	Date Considered 2/4/02
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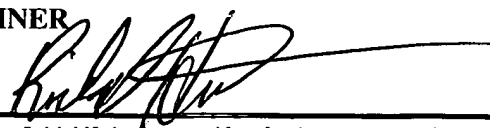
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Examiner Initial	Copy Enclosed	Document Description
RH	X	Altschul et al., "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs," <i>Nucleic Acids Research</i> , 25:3389-3402 (1997).
RH	X	Arkin et al., "An algorithm for protein engineering: Simulations of recursive ensemble mutagenesis," <i>Proceedings of the National Academy of Sciences, USA</i> , 89:7811-7815 (1992).
RH		Armstrong et al., "Adsorption Catalyzed Chemical Hydrolysis of Atrazine," <i>Environ. Sci. Technol.</i> , 2(9), 683-689 (1968).
RH	X	Austin et al., "Production and field performance of transgenic alfalfa (<i>Medicago sativa</i> L.) expressing alpha-amylase and manganese-dependent lignin peroxidase," <i>Euphytica</i> , 85:381-393 (1995).
RH	X	Ausubel, et al., eds., <i>Current Protocols in Molecular Biology</i> , John Wiley & Sons, Inc., United States; title page, publication page, and table of contents only: 12 pages (1994).
RH	X	Baker, "Herbicide Resistance," <i>Tropical Grassy Weeds</i> , CAB International, Wallingford, England, Title page, publication page and pages 96-105 (1991).
RH	X	Bartel et al., "Isolation of New Ribozymes from a Large Pool of Random Sequences," <i>Science</i> , 261:1411-1418 (1993).
RH		Behki et al., "Metabolism of the Herbicide Atrazine by <i>Rhodococcus</i> Strains," <i>Applied and Environmental Microbiology</i> , 59(6), 1955-1959 (1993).
RH		Behki et al., "Degradation of Atrazine by <i>Pseudomonas</i> : N-Dealkylation and Dehalogenation of Atrazine and Its Metabolites," <i>J. Agric. Food Chem.</i> , 34, 746-749 (1986).
RH		Bergman et al., "Determination of Trace Amounts in Chlorine in Naphtha," <i>Anal. Chem.</i> , 29(2), 241-243 (1957).
RH	X	Bingham, "Registration of Alfalfa Hybrid Regen-Sy Germplasm for Tissue Culture and Transformation Research," <i>Crop Science</i> , 31:1098 (1991).
RH	X	Bock et al., "Selection of single-stranded DNA molecules that bind and inhibit human thrombin," <i>Nature</i> , 355:564-566 (1992).
RH	X	Box, et al., <i>Statistics for Experimenters : An Introduction to Design, Data Analysis, and Model Building</i> , John Wiley & Sons, Inc., New York, NY; Title page, publication page and table of contents only: 10 pages (1978).

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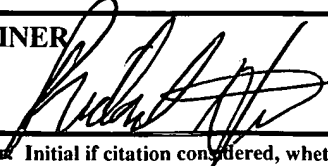
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RA	X	Brosius, et al., "Gene organization and primary structure of a ribosomal RNA operon from <i>Escherichia coli</i> ," <i>Journal of Molecular Biology</i> , 148(2):107-127 (1981).
	X	Brown et al., "Role of genetic background in somatic embryogenesis in <i>Medicago</i> ," <i>Plant Cell Tissue Organ Culture</i> , 4:111-122 (1985).
	X	Burchfield et al., "Pyridine-alkali reactions in the analysis of pesticides containing active halogen atoms," <i>Agricultural and Food Chemistry</i> , 6:106-110 (1958).
	X	Caldwell et al., "Limits of Diffusion in the Hydrolysis of Substrates by the Phosphotriesterase from <i>Pseudomonas diminuta</i> ," <i>Biochemistry</i> , 30(30):7438-7444 (1991).
	X	Calogero et al., "In vivo recombination and the production of hybrid genes," <i>FEMS Microbiology Letters</i> , 97:41-44 (1992).
RA	X	Caren et al., "Efficient Sampling of Protein Sequence Space for Multiple Mutants," <i>Bio/Technology</i> , 12:517-520 (1994).
		Chang et al., "Construction and Characterization of Amplifiable Multicopy DNA Cloning Vehicles Derived from the P15A Cryptic Miniplasmid," <i>J. Bacteriol.</i> , 134(3), 1141-1156 (1978).
		Cook et al., "s-Triazines as Nitrogen Sources for Bacteria," <i>J. Agric. Food Chem.</i> , 29, 1135-1143 (1981).
RA		Cook, "Biodegradation of s-triazine xenobiotics," <i>FEMS Microbiology Reviews</i> , 46, 93-116 (1987).
RA	X	Crossway et al., "Integration of foreign DNA following microinjection of tobacco mesophyll protoplasts," <i>Molecular and General Genetics</i> , 202:179-185 (1986).
RA	X	Cwirla et al., "Peptides on phage: A vast library of peptides for identifying ligands," <i>Proceedings of the National Academy of Sciences, USA</i> , 87:6378-6382 (1990).
RA	X	Daniell et al., "Containment of herbicide resistance through genetic engineering of the chloroplast genome," <i>Nature Biotechnology</i> , 16:345-348 (1998).

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RH		de Bruijn et al., "The use of transposon Tn5 mutagenesis in the rapid generation of correlated physical and genetic maps of DNA segments cloned into multicopy plasmids - a review," <i>Gene</i> , 27, 131-149 (1984).
RH	X	Delagrave et al., "Searching Sequence Space to Engineer Proteins: Exponential Ensemble Mutagenesis," <i>Bio/Technology</i> , 11:1548-1552 (1993).
RH	X	Delagrave et al., "Recursive ensemble mutagenesis," <i>Protein Engineering</i> , 6:327-331 (1993).
RH	X	Dellaporta et al., "Molecular Cloning of the Maize <i>R-nj</i> Allele by Transposon Tagging with <i>Ac</i> ," <i>Chromosome Structure and Function</i> , Plenum Press, New York, Title page, publication page and pages 263-282 (1988).
RH		de Souza et al., "Identification of a Gene Cluster from <i>Pseudomonas</i> sp. ADP, Involved in Atrazine Biodegradation," <i>Abstracts of the 95th General Meeting of the American Society for Microbiology</i> , Abstract No. Q-89 (1995).
RH		de Souza et al., "Cloning, Characterization, and Expression of a Gene Region from <i>Pseudomonas</i> sp. Strain ADP Involved in the Dechlorination of Atrazine," <i>Applied and Environmental Microbiology</i> , 61(9) 3373-3378 (1995).
RH		de Souza et al., "Atrazine Chlorohydrolase from <i>Pseudomonas</i> sp. Strain ADP: Gene Sequence, Enzyme Purification, and Protein Characterization," <i>Journal of Bacteriology</i> , 178(16), 4894-4900 (1996).
RH	X	Eaton et al., "Metabolism of dibutylphthalate and phthalate by <i>Micrococcus</i> sp. strain 12B," <i>Journal of Bacteriology</i> , 151(1):48-57 (1982).
		Eaton et al., "Cloning and Analysis of s-Triazine Catabolic Genes from <i>Pseudomonas</i> sp. Strain NRRLB-12227," <i>Journal of Bacteriology</i> , 173, 1215-1222 (1991).
		Eaton et al., "Cloning and Comparison of the DNA Encoding Ammelide Aminohydrolase and Cyanuric Acid Amidohydrolase from Three s-Triazine-Degrading Bacterial Strains," <i>Journal of Bacteriology</i> , 173(3), 1363-1366 (1991).
RH	X	Elhai et al., "Conjugal Transfer of DNA to Cyanobacteria," <i>Methods in Enzymology</i> , 167:747-754 (1988).

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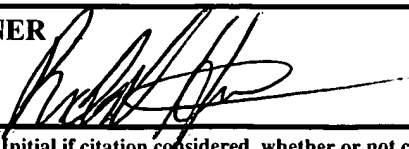
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Examiner Initial	Copy Enclosed	Document Description
RH		EMBL Database entry TT3ITRA, Accession number M13165, July 16, 1988 Sequence: Huang et al., "Analysis of Tn3 sequences required for transposition and immunity, <i>Gene</i> , 41, 23-31 (1986).
RL		EMBL Database Entry RCTRZA Accession Number L16534; October 2, 1993, Shao et al., <i>Rhodococcus corallinus</i> (NRRL 15444B) N-ethylammeline chlorohydrolase (trzA) gene, complete cds.
BA	X	Epstein, "Estimation of Microquantities of Cyanide," <i>Analytical Chemistry</i> , 19: 272-274 (1947).
EH		Erickson et al., "Degradation of Atrazine and Related S-Triazines," <i>Critical Reviews in Environmental Control</i> , 19, 1-13 (1989).
RH	X	Fadullon et al., "Degradation of atrazine in soil by <i>Streptomyces</i> ," <i>Journal of Environmental Science and Health B</i> , 33(1):37-49 (1998).
RH	X	Flores et al., "Characterization of a glutaraldehyde stabilized yeast cell biocatalyst with β -galactosidase activity," <i>Journal of Fermentation and Bioengineering</i> , 81(6):524-529 (1996).
RH	X	Freeman et al., "Fixation and stabilization of <i>Escherichia coli</i> cells displaying genetically engineered cell surface proteins," <i>Biotechnology and Bioengineering</i> , 52(5): 625-630 (1996).
RH	X	Gallie et al., "The 5'-leader sequence of tobacco mosaic virus RNA enhances the expression of foreign gene transcripts in vitro and in vivo, <i>Nucleic Acids Research</i> , 15:3257-3273 (1987).
RH	X	Gallie, "Posttranscriptional Regulation of Gene Expression in Plants," <i>Annual Review of Plant Physiology and Plant Molecular Biology</i> , 44:77-105 (1993).
RH	X	Gamborg et al., "Nutrient Requirements of Suspension Cultures of Soybean Root Cells," <i>Experimental Cell Research</i> , 50:151-158 (1968).
RH		Giardina et al., "4-Amino-2-Chloro-1,3,5-triazine: A New Metabolite of Atrazine by a Soil Bacterium," <i>Agric. Biol. Chem.</i> , 44(9), 2067-2072 (1980).
RH	X	Goldman et al., "An Algorithmically Optimized Combinational Library Screened by Digital Imaging Spectroscopy," <i>Bio/Technology</i> , 10:1557-1561 (1992).
RH	X	Habig et al., "Assays for Differentiation of Glutathione s-transferases," <i>Methods in Enzymology</i> , 77:398-405 (1981).

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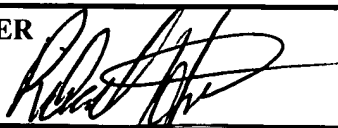
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RV		Hanahan, <i>DNA Cloning Vol. II</i> ; D. M. Glover; Ed.; IRL Press Limited: Oxford, England; 109-135 (1985).
RV	X	Hayashi et al., "Simultaneous Mutagenesis of Antibody CDR Regions by Overlap Extension and PCR," <i>Biotechniques</i> , 17:310-315 (1994).
RV	X	Heijne et al., "Domain structure of mitochondrial and chloroplast targeting peptides," <i>European Journal of Biochemistry</i> , 180:535-545 (1989).
RV	X	Hermes et al., "Searching sequence space by definably random mutagenesis: Improving the catalytic potency of an enzyme," <i>Proceedings of the National Academy of Sciences, USA</i> , 87:696-700 (1990).
RV		Hsiao et al., "High-frequency transformation of yeast by plasmids containing the cloned yeast <i>ARG4</i> gene," <i>Proc. Natl. Acad. Sci. USA</i> , 76(8), 3829-3833 (1979).
RV	X	Ikuta et al., "The α -Amylase Gene as a Marker for Gene Cloning: Direct Screening of Recombinant Clones," <i>Biotechnology</i> , 8:241-242 (1990).
RV		Jessee et al., "Anaerobic Degradation of Cyanuric Acid, Cysteine, and Atrazine by a Facultative Anaerobic Bacterium," <i>Applied and Environmental Microbiology</i> , 45(1), 97-102 (1983).
RV	X	Jobling et al., "Enhanced translation of chimaeric messenger RNAs containing a plant viral untranslated leader sequence," <i>Nature</i> , 325:622-625 (1987).
RV	X	Jones et al., "Degradation of atrazine in estuarine water/sediment systems and soils," <i>Journal of Environmental Quality</i> , 11(4):632-638 (1982).
RV	X	Katz et al., "Cloning and Expression of the Tyrosinase Gene from <i>Streptomyces antibioticus</i> in <i>Streptomyces lividans</i> ," <i>Journal of General Microbiology</i> , 129:2703-2714 (1983).
RV	X	Kauffmann et al., "Entrapment of atrazine chlorohydrolase in sol-gel glass matrix," <i>Journal of Biotechnology</i> , 62(3):169-176 (1998).
RV	X	Keegstra et al., "Chloroplastic Precursors and Their Transport Across the Envelope Membranes," <i>Annual Review of Plant Physiology and Plant Molecular Biology</i> , 40:471-501 (1989).
RV	X	Kennedy et al., "Principles of immobilization of enzymes," <i>Handbook of Enzyme Biotechnology</i> , 3 rd Edition, Wiseman, ed., Ellis Horwood Limited, Hertfordshire, Great Britain, Title page, publication page and pages 235-310 (1995).

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RA	X	Klein et al., "High-velocity microprojectiles for delivering nucleic acids into living cells," <i>Nature</i> , 327:70-73 (1987).
RA	X	Kontchou et al., "Rapid biodegradation of the herbicide atrazine in soil inoculated with a pure bacterial culture," Proceedings of the IX Symposium of Pesticide Chemistry: Mobility and Degradation of Xenobiotics, (A.A.M. Del Re et al., eds.), Piacenza, Italy, 11-13 October 1993, pp. 533-536 (Istituto di Chimica Agraria ed Ambientale, Università Cattolica del Sacro Cuore).
	X	Koskinen et al., "Automation of atrazine and alachlor extraction from soil using a laboratory robotic system," <i>Soil Science Society of America Journal</i> , 55:561-562 (1991).
	X	LeBaron, "Ways and means to influence the activity and the persistence of triazine herbicides in soils," <i>Residue Reviews</i> , 32:311-353 (1970).
	X	LeBaron et al., "Summary of Accomplishments, Conclusions, and Future Needs," <i>Herbicide Resistance in Plants</i> , Wiley, N.Y., Title page, publication page and pages 349-362 (1982).
	X	LeBaron et al., "Herbicide resistance in weeds and crops," <i>Managing Resistance to Agrochemicals</i> , ACS Symposium Ser. 421, ACS Books, Washington, D.C., Title page, publication page and pages 336-352 (1990).
RV	X	Lee et al., "Superoxide dismutase: an evolutionary puzzle," <i>Proceedings of the National Academy of Sciences, USA</i> , 82:824-828 (1985).
RV		Leong et al., "Heme Biosynthesis in <i>Rhizobium</i> ," <i>J. Bio. Chem.</i> , 257(15) 8724-8730 (1982).
RV	X	Leung et al., "A Method for Random Mutagenesis of a Defined DNA Segment using a Modified Polymerase Chain Reaction," <i>Technique</i> , 1:11-15 (1989).
RV	X	Liu et al., "Ecology and evolution of microbial populations for bioremediation," <i>Trends in Biotechnology</i> , 11(8):344-352 (1993).
RV	X	Loos, "Indicator media for microorganisms degrading chlorinated pesticides," <i>Canadian Journal of Microbiology</i> , 21:104-107 (1975).
RV		Maleki et al., "Degradation of Atrazine by Soil Consortia: Characterization of Enzymatically Active Fractions from Cell-Bound and Cell-Free Enrichment Cultures," <i>Abstracts of the 95th General Meeting of the American Society for Microbiology</i> , Abstract No. Q-88 (1995).

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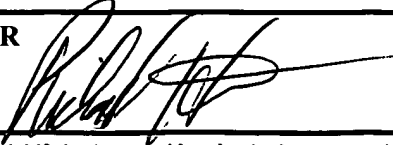
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RH		Mandelbaum et al., "Mineralization of the s-Triazine Ring of Atrazine by Stable Bacterial Mixed Cultures," <i>Applied and Environmental Microbiology</i> , 59(6), 1695-1701 (1993).
RH		Mandelbaum et al., "Rapid Hydrolysis of Atrazine to Hydroxyatrazine by Soil Bacteria," <i>Environ. Sci. Technol.</i> , 27(9) 1943-1946 (1993).
RH		Mandelbaum et al., "Isolation and Characterization of a <i>Pseudomonas</i> sp. That Mineralizes the s-Triazine Herbicide Atrazine," <i>Applied and Environmental Microbiology</i> , 61(4) 1451-1457 (1995).
RH		Maniatis et al., <i>Molecular Cloning: A Laboratory Manual</i> , Cold Springs Harbor Press: Cold Spring Harbor, NY, Title page, publication page and table of contents (pp. v-xxxii) (1989).
RH	X	Marton et al., "DNA nicking favors PCR recombination," <i>Nucleic Acids Research</i> , 19:2423-2426 (1991).
RH	X	Mattan, Cynthia "Dechlorination of Atrazine by the Enzyme Atrazine Chlorohydrolase During Simulated Water Treatment Processes," Master of Sciences Thesis, University of Minnesota, 48 pages (1998).
RH		Maxam et al., "Sequencing End-Labeled DNA with Base-Specific Chemical Cleavages," <i>Methods in Enzymology</i> , 65, 499-561 (1980).
RH	X	McCafferty et al., "Phage antibodies: filamentous phage displaying antibody variable domains," <i>Nature</i> , 348:552-554 (1990).
RH		Messing et al., "A System for Shotgun DNA Sequencing," <i>Nucl. Acids Res.</i> , 9, 309-321 (1981).
RH	X	Mets et al., "Prospects for Genetic Modification of Plants for Resistance to Triazine Herbicides," <i>Biotechnology in Plant Science: Relevance to Agriculture in the Eighties</i> , Academic Press, Florida, Title page, publication page and pages 301-312 (1985).
RH	X	Meyerhans et al., "DNA recombination during PCR," <i>Nucleic Acids Research</i> , 18:1687-1691 (1990).
RH	X	Minshall, "Cleaning up our own backyard: developing new catabolic pathways to degrade pollutants," <i>Chemistry & Biology</i> , 2(12):775-780 (1995).

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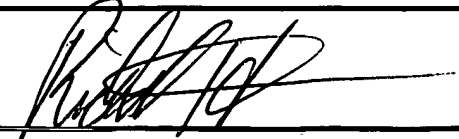
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RA	X	Minshull, "Evolving Enzymes for Biodegradation and Biosynthesis," Abstract, 4:10, IBC's 2 nd Annual Symposium on Exploiting Enzyme Technology, International Business Communications, 4 pages (February 20, 1997).
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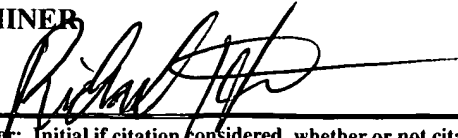
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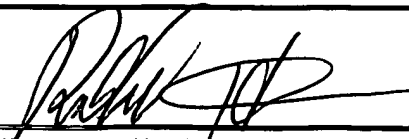
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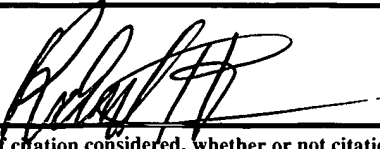
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RV	X	Viera et al., "The pUC plasmids, an M13mp7-derived system for insertion mutagenesis and sequencing with synthetic universal primers," <i>Gene</i> , 19(3):259-268 (1982).
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